

# W1G180-AB31-10 ebm-papst 24VDC 200mm EC Axial Fan Datasheet



**Brand:** ebmpapst

**SKU:** [652714292598](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$321.99**

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Product Page:

<https://www.equipspares.com/product/w1g180-ab31-10-ebm-papst-24vdc-200mm-ec-axial-fan>

## Product Description

The ebm-papst W1G180-AB31-10 is a high-efficiency EC Axial Fan engineered for demanding thermal regulation in industrial environments. Utilizing advanced GreenTech EC motor technology, this unit offers superior energy efficiency compared to standard AC counterparts while maintaining a compact footprint. The aerodynamic design features a fibreglass-reinforced plastic impeller housed within a robust die-cast aluminum wall ring, ensuring structural rigidity and optimal airflow dynamics. Its integrated electronics provide precise speed control and thermal impedance management, making it a reliable solution for continuous operation systems requiring low vibration and extended service life.

Model Number: W1G180-AB31-10

Brand: ebm-papst

Product Type: EC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 16.0 - 28.0 VDC

Rated Current: 1.8 A

Power Input: 38 W

Rated Speed: 2950 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 459.1 CFM (780 m<sup>3</sup>/h / 13.0 m<sup>3</sup>/min)

Max. Static Pressure: 18.35 mmH<sub>2</sub>O (180 Pa / 0.72 inH<sub>2</sub>O)

Dimensions: 200x200x55mm

Impeller Diameter: 180mm

Weight: 1.8 kg

Life Expectancy: 60,000 Hours (40°C)

Motor Type: M1G055-BD

Speed Control: 0-10 VDC / PWM Control Input

Ingress Protection: IP20

Insulation Class: Class B

Noise Level: 58 dB(A)

Housing Material: Die-cast Aluminum

Impeller Material: PA Plastic (UL94V-0)

Direction of Rotation: Counter-clockwise (viewed toward rotor)

Airflow Direction: V (Struts to Impeller)

Operating Temperature: -25°C to +60°C

Motor Protection: Reverse Polarity, Locked Rotor Protection, Soft Start

Approvals: CE, CSA, UL, VDE

The W1G180-AB31-10 is specifically designed for critical cooling applications in telecommunications infrastructure and industrial automation cabinets. Its compact profile allows for seamless integration into server racks, frequency converters, and medical diagnostic equipment where space is at a premium but high airflow is mandatory. Engineers frequently deploy the W1G180-AB31-10 in heat exchanger systems and photovoltaic inverters, relying on its robust EC motor to maintain optimal operating temperatures for sensitive electronic components.

## Supplemental Images

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